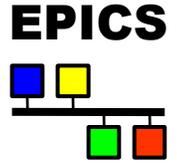


EPICS Base 3.14 Status JLAB November 2002

Marty Kraimer
APS/ANL



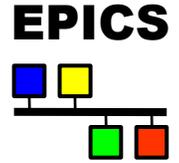
EPICS Base 3.14 Status



- 3.14.0beta2 is the latest release
 - Available via the new EPICS base License
- 3.14.1 soon. December 2002
- Future 3.14 releases
 - Major emphasis is stability
 - Only minor enhancements
 - iocsh improvements
 - pthread priorities
 - pthread mutex
 - Major changes will go into 3.15
 - 3.14 releases should be more frequent.
 - 3.14 will be put on CVS branch



Base 3.14 Overview



•Main Goal for 3.14: port iocCore

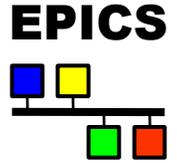
- vxWorks - 5.4 (Tornado 2) required
- RTEMS - Open Source Real Time Operating System
- Solaris - Solaris 6 and Solaris 8 tested
- Linux - Redhat 6.1, 6.2, 7.0, 7.1, 7.2, 7.3 tested
- Win32 - NT, win2000 tested
- Darwin - Open Source for Mac OSX
- HPUX11 - Release 3.14.1
- Base software is organized to minimize porting effort
- Marty Kraimer, Jeff Hill, Janet Anderson, Eric Norum, and Ralph Lange primary developers.

•Hardware Support

- vxWorks support unbundled
- Some for RTEMS
- Requires major changes for non VME/vxWorks platforms



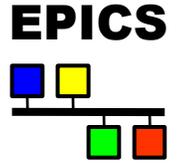
3.14 Channel Access Features



- Large Arrays - available in beta1
 - Both client and server must be 3.14
 - Set `CA_MAX_ARRAY_BYTES` on both client and server
 - Transparent to existing clients but must be relinked
 - Purpose is ease of use not performance
 - In 3.14.1 PCAS will also support large arrays.
- Multipriority CA servers - available in beta1
 - Client must request, i.e. not transparent to existing clients.
 - Provides incremental improvement for performance degradatation. Purpose is to allow inter IOC communication to have higher priority than other clients.
- No other new features for 3.14



Channel Access Features (Cont.)



- ◆ Regression testing was upgraded
- ◆ Reference manual upgraded
 - ◆ new chapters
 - ◆ converted to HTML
- ◆ UDP protocol now has sequence numbers
 - ◆ Improved CA Search message scheduling
 - ◆ Detection of CA server beacons duplicated by routing loops
 - ◆ Both client and server must be running R3.14
- ◆ Hash tables now expand on demand, but retains deterministic latency